

Los Angeles | May 22, 2024

aws SUMMIT



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SVS202

Enhance an event-driven video streaming app with AWS Serverless

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AWS



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General housekeeping

- Running time is 1 hour
- AWS account will be provided
- This account is temporary
- Questions? We are here to help!

Prerequisites

- Workshop cannot be completed with a tablet
- Compatible with Chrome/Firefox (not Safari)
- Familiarity with the AWS Management Console

Agenda

- ServerlessVideo
- What are we going to build?
- Architecture
- Additional Resources

What is ServerlessVideo?

- A live video streaming application built with serverless technologies
- **Generative AI titles:** uses Amazon Bedrock and Amazon Transcribe to automatically create descriptive video titles
- **Plugin architecture:** AWS Step Functions and Amazon EventBridge provide a pluggable architecture that supports extensive feature additions
- **Versatile serverless compute:** uses a combination of serverless computing substrates for enhanced flexibility



ServerlessVideo



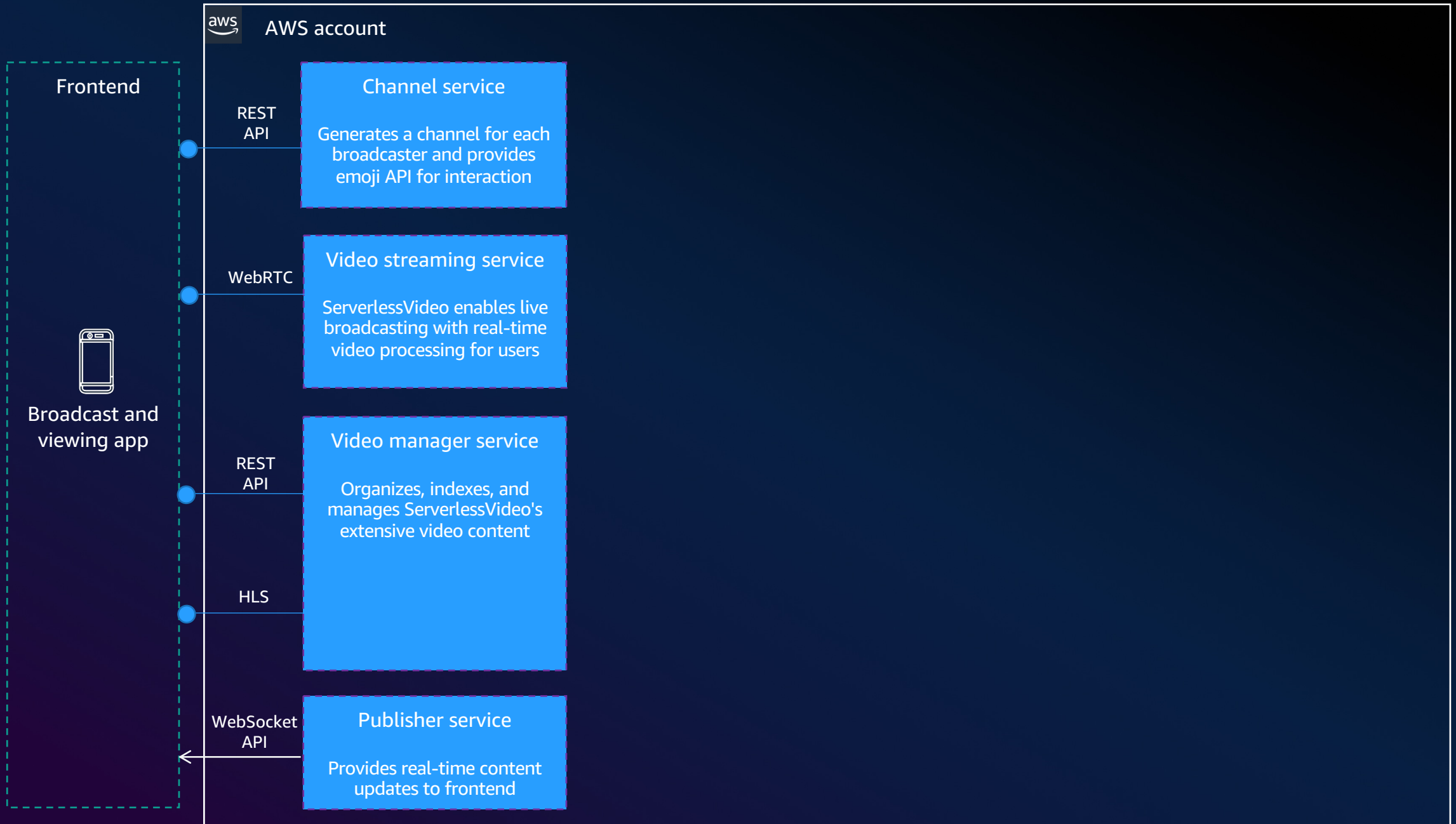
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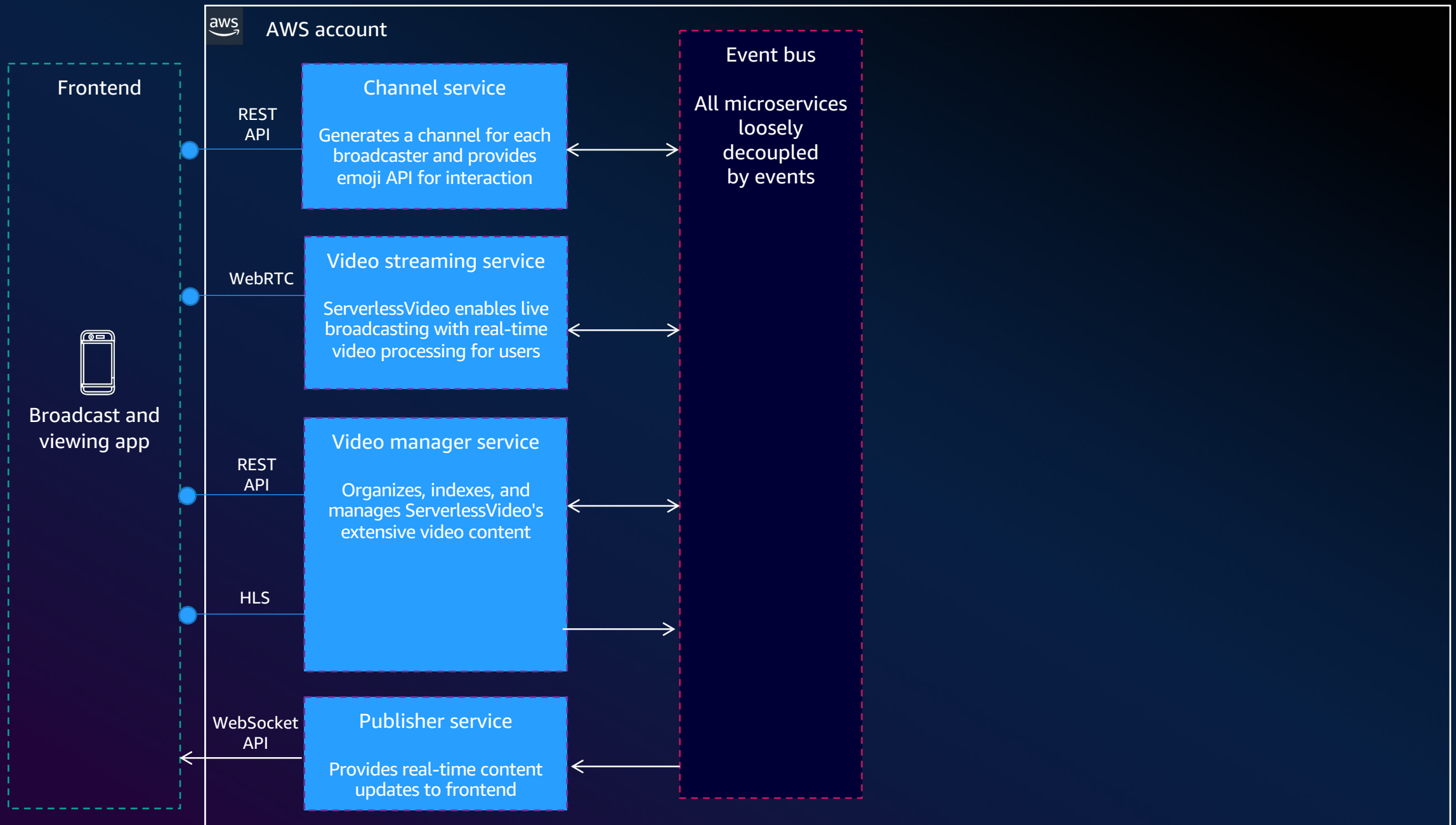


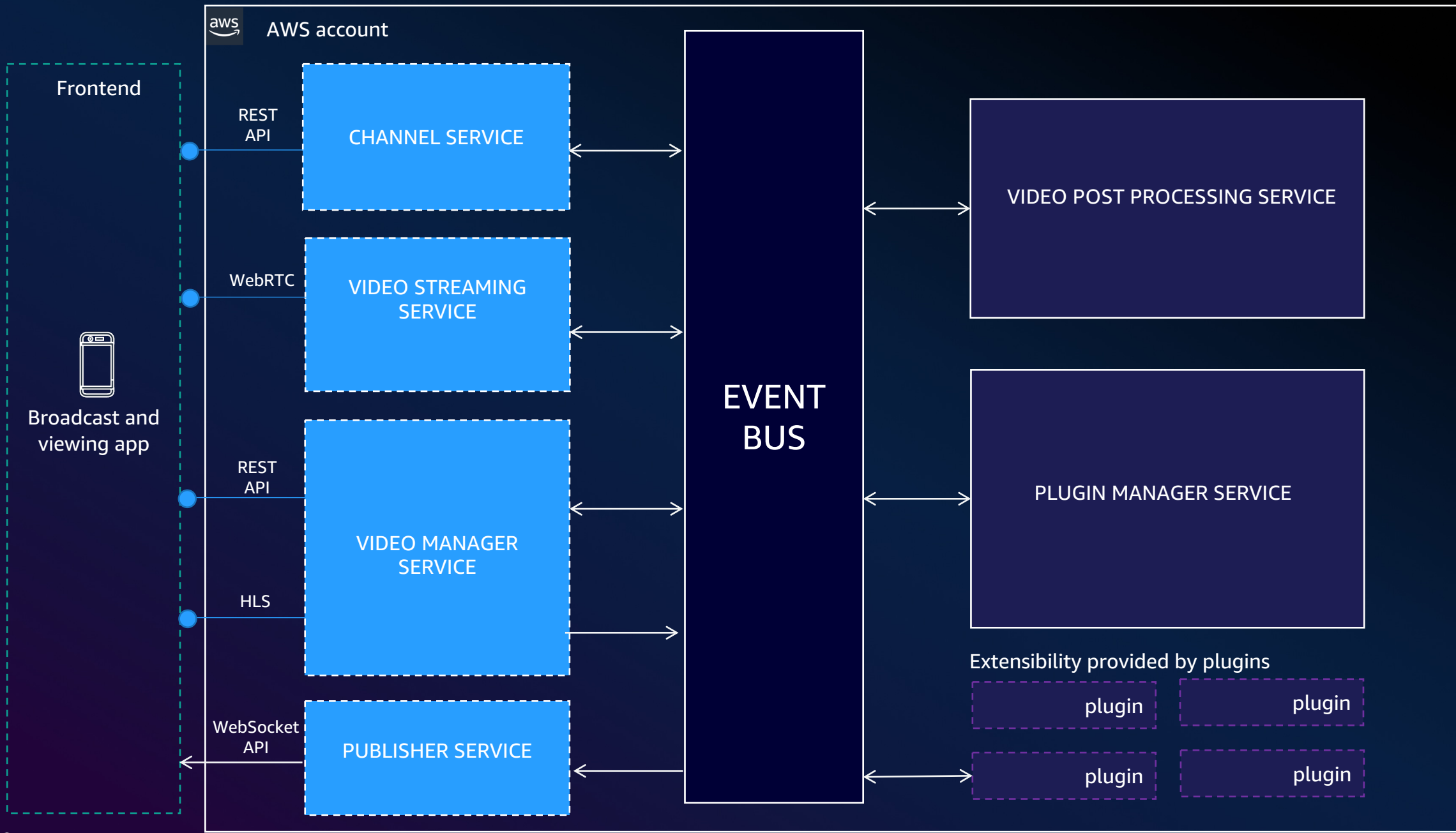
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Architecture



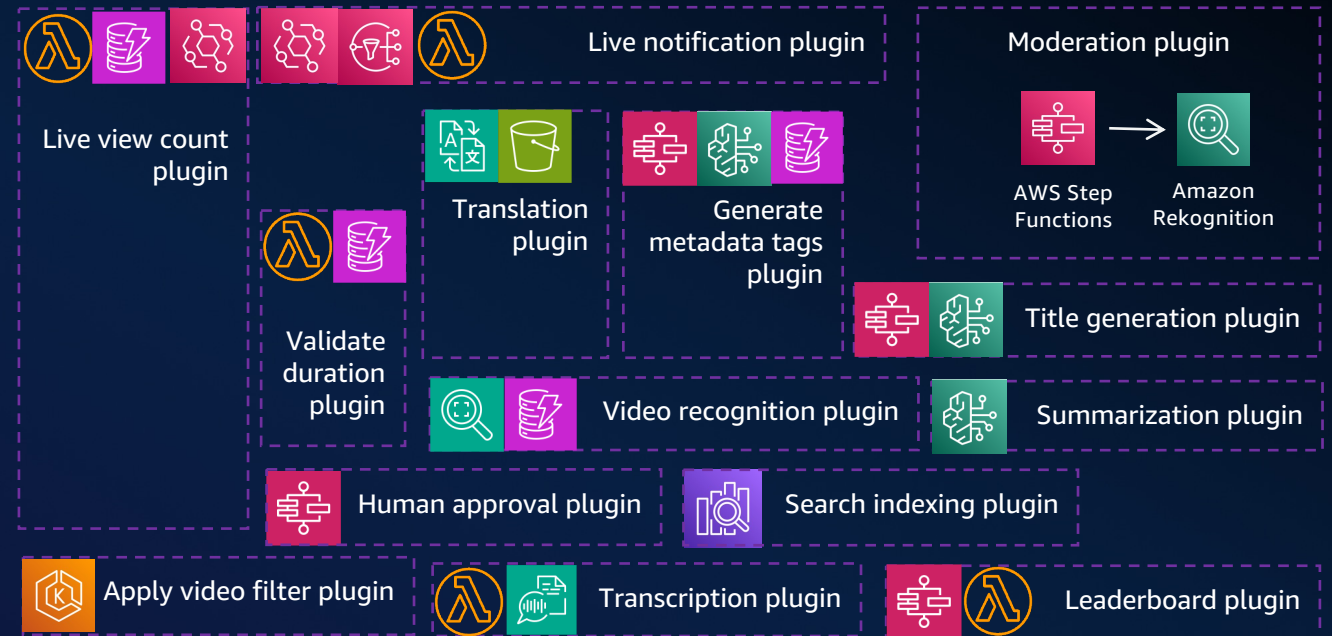






Extensible with plugin architecture

- The core functionality is extended by multiple plugins
- The plugins add capabilities for:
 - AI and ML workloads
 - Human approval
 - Notifications
 - Translations
 - Transcriptions
 - Observability
 - Searching
 - Validation
 - Reporting
 - Video filters
 - Leaderboards
 - Gamification
 - ... and more



ServerlessVideo



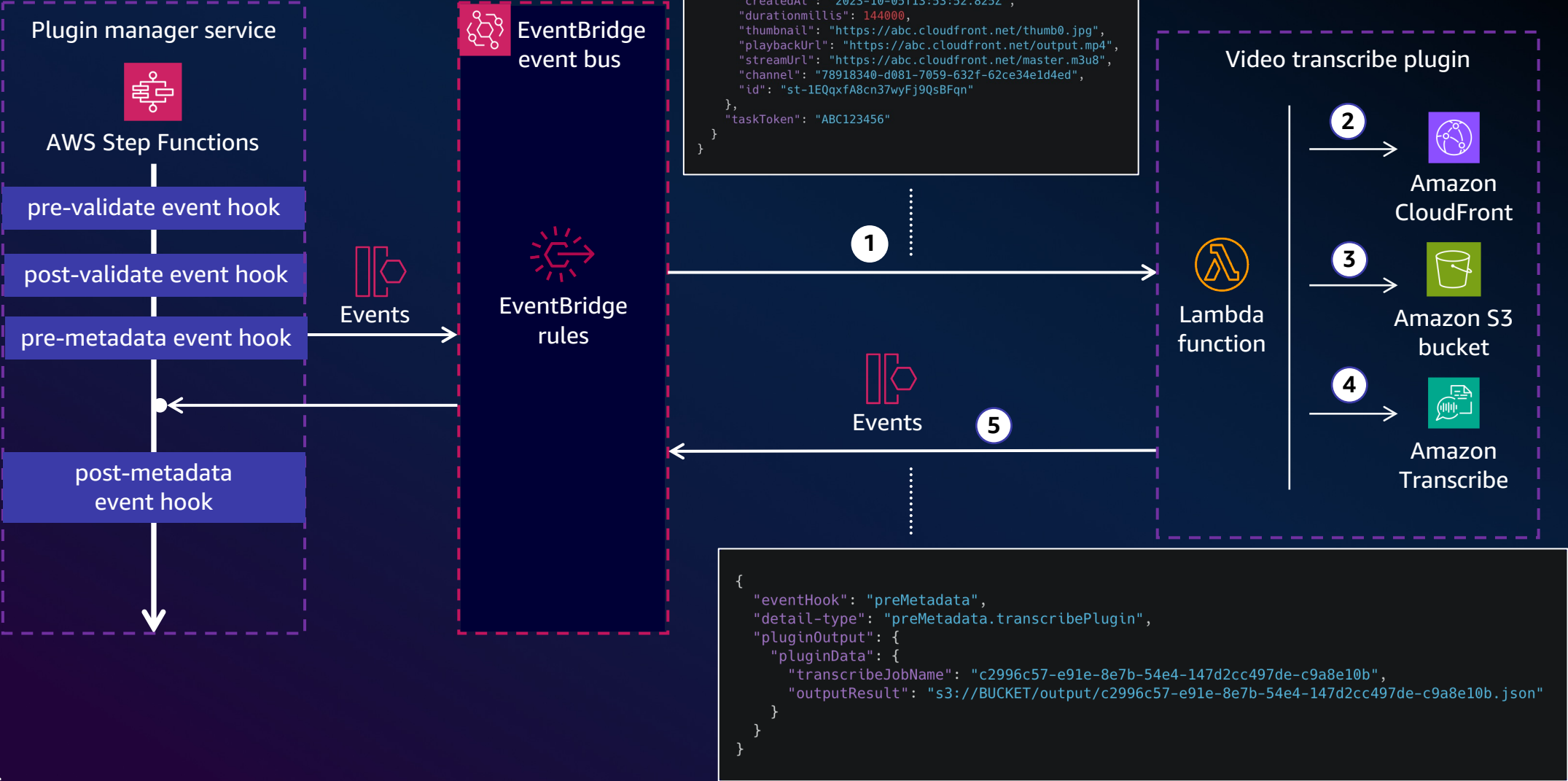
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<https://s12d.com/video>

What are you going to build?

Transcribe plugin



Let's build our first plugin!



ServerlessVideo

Start your adventure at
<https://s12d.com/serverlessvideo-la-2024>

Best practices, for **everyone**



Powertools for AWS Lambda

Python | TypeScript | Java | .NET

Batch processing

Config management

Observability

Secrets handling

REST/GraphQL API

Idempotency

Input/output validation

BYO middleware

Self-documented schemas

Feature flags

Caching

Streaming

Data extraction

Feature set may vary across programming languages



Key takeaways



AWS Serverless services allow you to **build secure and scalable applications with no infrastructure management**



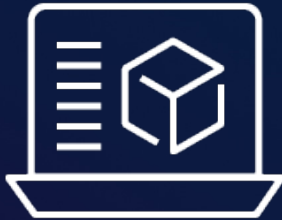
Event-driven architectures enable you to **decouple application components, and improve user experience with asynchronous workflows**



Using Powertools for Lambda enables your teams to **implement serverless best practices and increase developer velocity**

Continue your AWS serverless learning

Learn at your
own pace



Expand your serverless
skills with our learning plans
on **AWS Skill Builder**

Increase your
knowledge



Use our **Ramp-Up Guides**
to build your serverless
knowledge

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<https://s12d.com/serverless-learning>

Thank you!

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